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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/791,632	03/01/2004	Amit Agarwal	15654	3084
26327	7590	11/02/2006	EXAMINER	
THE LAW OFFICE OF KIRK D. WILLIAMS			LI, ZHUO H	
PO BOX 61538			ART UNIT	PAPER NUMBER
DENVER, CO 80206-8538			2185	

DATE MAILED: 11/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/791,632	AGARWAL ET AL.	
	<b>Examiner</b> Zhuo H. Li	<b>Art Unit</b> 2185	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 01 March 2004.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) 1-5, 11-20 and 26-30 is/are allowed.
- 6) Claim(s) 6-10 and 21-25 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 01 March 2004 is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____.
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>1/13/2006</u> .	5) <input type="checkbox"/> Notice of Informal Patent Application
	6) <input type="checkbox"/> Other: _____.

## **DETAILED ACTION**

### ***Information Disclosure Statement***

1. The Information Disclosure Statement filed on January 13, 2006 has been considered.

### ***Claim Objections***

2. Claims 1, 6 and 11 are objected to because of the following informalities:

Claims 1, and 11, line 2, "the plurality of ACLs including  $n$  ACLs", should be -- the plurality of ACLs including  $n$  ACLs, wherein  $n$  is an integrated number which  $n$  is great than 1-- because "n" contains indefinitely meaning which can be interrupted as any amount of numbers, such as negative 1.

Claim 6 is also objected as the same reasons set forth in claims 1 and 11.

Appropriate correction is required.

### ***Claim Rejections - 35 USC § 101***

3. Claims 6-10 and 21-25 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Regarding claims 6 and 21, the term "computer-readable medium", in line 1, defined in the specification in this instance (see page 9) provides intrinsic evidence in the form of examples of items considered to fall within the broadest reasonable interpretation of computer-readable medium. These examples include computer storage media and communication media. While the computer storage media would establish a statutory category of a machine or manufacture,

the communication media include forms of energy (e.g., data signals and carrier waves) and media (e.g., a wire) which are not functionally or structurally interconnected with the instructions in such a manner as to enable the instructions to act as a computer component and realize any functionality they may possess.

Regarding claims 7-10 and 22-25 are also rejected because of depending on claims 6 and 21 respectively, containing the same deficiency.

***Allowable Subject Matter***

4. Claims 1-5, 11-20 and 26-30 are allowed.

***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Srinivasan et al. (US PAT. 6,910,097) discloses a method and apparatus for using a binary content addressable memory to implement classless interdomain routing address processing wherein each of the binary content addressable memory cells associated with group global mask (col. 2 line 66 through col. 3 line 11).

Proebsting et al. (US PAT. 6,839,256) discloses content addressable memory devices having dedicated mask cell sub-arrays therein and method of operating same (abstract).

Cheriton (US PAT. 7,002,965) discloses method and apparatus for using ternary and binary content-addressable memory stages to classify packets wherein the input and output

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classification may including routing, access control lists, quality of service, network address translation, encryption (col. 1 lines 61-67).

East et al. (US PAT. 5,187,790) discloses server impersonation of client processes in an object based computer operating system (col. 22 line 54 through col. 27 line 37).

Muthukrishnan et al. (US PAT. 2005/0,135,355) discloses switching device utilizing internal priority assignments with a plurality of queues associated with a source and a destination stores the segments (abstract).

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zhuo H. Li whose telephone number is 571-272-4183. The examiner can normally be reached on Tues - Fri 9:00am - 6:30pm and alternate Monday..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sanjiv Shah can be reached on 571-272-4098. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Zhuo H. Li

*Zhuo*

Patent Examiner  
October 26, 2006

HONG CHONG XIAO  
PRIMARY EXAMINER